

Abstract

Data Transmission Network

5 Data transmission network having a least one line termination device (2) connected via a data transmission medium (7) to several network termination devices (8), each network termination device (8) comprising a request message generator (33) for generating a data transmission request message when  
10 a data communication device (9) connected to the network termination device (8) is sending data, and an xDSL transceiver (20) for transmitting an upstream data frame including the generated request message via the data transmission medium (7) to the line termination device (2),  
15 said line termination device (2) comprising a selection unit (66) for selecting network termination devices (8) which have sent a request message depending on stored status information data of the network termination devices (8), a grant message generator (68) for generating data transmission grant messages for the selected network termination devices (8), and an xDSL transceiver (20) for broadcasting downstream data frames including the generated grant messages via the data transmission medium (7) to the network termination devices (8).

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Fig. 2

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